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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application of

Confirmation No. 1112

Edwin Southern

Attorney Docket No. 2004 0200

Serial No. 10/772,467

Group Art Unit 1631

Filed February 6, 2004

Examiner A. Skibinsky

ANALYZING POLYNUCLEOTIDE SEQUENCES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

	each U.S. Patent and U.S. Patent application publication;
[]	each reference previously cited in the international application PCT/; and/or
[X]	each reference previously cited in prior parent application Serial No. 08/230,012 issued as USP 5,700,637 and 08/925,676 issued as USP 6,054,270.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure	Statement	is submitted
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after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

- a. [] that each item of information contained in this Information Disclosure

 Statement was first cited in any communication from a foreign patent office in a

 counterpart foreign application not more than three months prior to the filing of
 the Statement, or
- b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.
- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4.		r each made		ice listed	on the attached form PTO-1449, reference
	a.	[]	a full or partial English langu	age trans	lation submitted herewith,
	b.		a foreign patent office search herewith,	report (i	n the English language) submitted
	c.		the concise explanation cont at page,	ained in t	ne specification of the present application
	d.	[]	the concise explanation set f	orth in the	attached English language abstract,
	e.	[]	the concise explanation set for reference:	orth belov	v or on a separate sheet attached to the
5.	[]	A for	eign patent office search repo	t citing o	ne or more of the references is enclosed.
6.	[]	Stater	ment Under 37 CFR 1.704(d)		
	cit thi	ed in a s com	any communication from a for	eign Pate by any ind	mation Disclosure Statement was first nt Office in a counterpart application, and lividual designated in §1.56(c) more than Disclosure Statement.
			1	Respectfu	lly submitted,
			1	Edwin So	uthern
]	Re	arren M. Cheek, Jr. gistration No. 33,367 torney for Applicant
Teleph	ngto ione nile	on, D.(e) (202) (202)	C. 20006-1021) 721-8200 721-8250		

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DAT					
	AA	4,994,373	2/1991	Stavianopoulos et al.	2.10							
	АВ	6,054,270	4/2000	Southern			·					
	AC	4,563,419	1/1986	Ranki et al.				,				
	AD	4,704,353	11/1987	Humphries et al.								
	AE	4,728,502	3/1988	Hamill								
	AF	4,327,073	4/1982	Huang								
	AG	4,216,245	8/1980	Johnson								
	АН	4,395,486	7/1983	Wilson et al.								
	AI	4,656,127	4/1987	Mundy								
			FORE	IGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLAT YES	TION NO				
	AJ	2 156 074	10/1985	UK								
	AK	0 237 362	9/1987	EP								
	AL	93/22480	11/93	wo								
	АМ	0 235726A3	9/1987	EP								
	AN	85/01051	3/1985	wo								
	,	OTHER	DOCUMENT(S) (I	ncluding Author, Title, Date, Pertine	nt Pages, Etc.)							
	AO G. Beltz et al., Methods in Enzymology, Vol. 100, pp. 265-285, 1983.											
	АР	E. M. Southern et al	., Genomics, V	/ol. 13, pp. 1008-1017, 1992	.							
	AQ	Y. P. Lysov et al., D	okl. Akad., Vol	. 303, pp. 1508-1511, 1988	(with English t	ranslation).						
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Sheet 2 of 14 INFORMATION DISCLOSURE STATEMENT										
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	ВА	5,164,319	11/1992	Hafeman et al.						
	вв	5,002,867	3/1991	Macevicz						
	вс	5,202,231	4/1993	Drmanac et al.						
	BD	5,700,637	12/1997	Southern						
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	BJ	0281927A2	9/1988	EP						
	вк	0130739A2	1/1985	EP						
	BL	0171150B1	2/1986	EP						
	вм	86/06487	11/1986	wo		.,,				
	BN	84/03564	9/1984	wo						
		OTHER	DOCUMENT(S)	Including Author, Title, Date, Pertin	nent Pages,	Etc.)				
	BO F. Kafatos et al., Nucleic Acids Research, Vol. 7, No. 6, pp. 1541-1552, 1979.									
	ВР	H. M. Geysen et al.	, J. Immun. Me	th., Vol. 102, pp. 259-274,	1987.	•				
	BQ	V. J. Kidd et al., Na	ture, Vol. 304,	pp. 230-234, 1983.						
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	СЛ	86/00991	2/1986		wo					
	ск	0228075A2	7/1987		EP					
	CL	84/03151	8/1984		wo					
	СМ	0194132A2	9/1986		EP					
	CN	0063810A1	11/1982		EP					
		OTHER	DOCUMENT(S) (Including Autho	or, Title, Date, Pertine	ent Page	s, Etc.)	<u>. </u>		
	CO P. Masinkowski et al., Nucleic Acids Research, Vol. 10, No. 24, pp. 7895-7903, 1982.									
	СР	G. K. Sim et al., Cel	I, Vol. 18, pp. 1	1303-1316,	1979.					
	cq	W. Bains et al., J. Ti	heor. Biol., Vol	I. 135, pp. 3	03-307, 1988.	1-71-7				
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Sheet 4 of 14			INFORMA	TION DISCLO	SURE STATEMEN	T				
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	DJ	0130523A3	1/1985		EP					
	DK	0142299A2	5/1985		EP					
	DL	0268237A2	5/1988		EP					
	DM	88/01302	2/1988		wo					
	DN	86/03782	7/1986		wo					
	ı	OTHER	DOCUMENT(S)	Including Auth	or, Title, Date, Pertin	nent Page	s, Etc.)			
	DO	Gingeras et al., Nuc	leic Acids Res	earch, Vol.	15, No. 13, pp.	5373-5	390, 198	37.		
	DP	U.B. Voss et al., Bio	chemical Soci	ety Transac	ctions, 624 th Med	eting, D	ublin, pp	o. 216-217, 1987	7.	
	DQ	R. K. Saiki et al., Na	ature, Vol. 324,	, pp. 163-16	66, 1986.		T			
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Sheet 5 of 14			INFORMA	TION DISCLO	SURE STATEMENT						
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,	ED	0238332A2	9/1987		EP						
	EE	EE 88/01302 2/1988 WO									
	EF	0 392 546	10/1990		EP						
	EG	570/87	unknown	Yu	ıgoslavia				Yes		
	EH	1284931	6/1991		CA						
		OTHER	DOCUMENT(S) (I	Including Auth	or, Title, Date, Pertine	ent Page	is, Etc.)				
	EI	Wood et al., Proc. N	latl. Acad. Sci.	(USA), Vol	i. 82, pp. 1585-18	588, 19	}85.				
	EJ	L. J. Arnold et al., Fe	ederation Proc	eedings, V	ol. 43, No. 7, Abs	stract N	 √o. 3669	, 1984.			
	EI	T. Maniatis et al., Mo	olecular Clonin	ıg, A Labor	atory Manual, Co	old Spri	ing Harb	or Laboratory, p	 ρ. 282, 1982		
	EL	C. R. Cantor et al., C	Genomics, Vol.	. 13, pp. 13	78-1383, 1992.						
	ЕМ	G. M. Church et al.,	Proc. Natl. Aca	ad. Sci. US	A, Vol. 81, pp. 19	991-19	95, 1984	4.			
	EN	R. Frank, Methods in	n Enzymology,	, Vol. 154, p	эр. 221-251, 198	37.					
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy this form with next communication to applicant.

Sheet 6 of 14			INFORM/	ATION DISCLO	SURE STATEME	ENT				
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	FE	89/11548	11/1989		wo					
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	FJ	R. Frank , Nucleic	Acids Research	h, Vol. 11, N	lo. 13, pp. 436	35-4377,	1983.			
	FK	A. R. Brautigam et	al., J. Clin. Mic	probiol., Vol.	12, No. 2, pp.	. 226-234	1980.			
	FL	A. Rosenthal et al.,	, Nucleic Acids	Research, \	Vol. 13, No. 4,	, pp. 117;	3-1184,	1985.		
	FM	B. Lewin, Genes, 3	J rd Ed., John Wi	iley & Sons,	pp. 360-362,	1983.				
	FN	M. Anderson et al., 111, 1985.	, Nucleic Acid F		ı, A Practical /	Approach	ı, B. D. F		., IRL Press,	pp. 73
	FO	M.S. Urdea et al., (Gene, Vol. 61, p	pp. 253-264	, 1987.			N. 18.7	A part	
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Sheet 7 of 14			INFORMA	TION DISCLO	SURE STATEMENT	Т				
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	T	OTHER	DOCUMENT(S)	Including Autho	or, Title, Date, Pertin	nent Pages	, Etc.)			
	GJ	C. G. Miyada et al.,	Methods in En	zymology, '	Vol. 154, pp. 94	-107, 19	87.			
	GK	E. Calva et al., J. Bi	ol. Chem., Vol	. 255, No. 2	2, pp. 11011-11	1016, 19	80.	estados.		
	GL	A. R. Dunn et al., Co	ell, Vol. 12, pp.	. 23-36, 197	77.					
	GM	G. Wengler et al., V	irology, Vol. 78	3, pp. 124-1	34, 1977.	·				
				<u> </u>		<u>.</u>	· ·			-
	GN	J. M. Coffin et al., C	ell, Vol. 13, pp	. 761-773, ʻ	1978.					
	GO	A. Palva et al., DNA	, Vol. 7, No. 2,	, pp. 135-14	2, 1988.					
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	HJ	R. Drmanac et al., " Belgrade (former Y	Sequencing of ugoslavia), 198	Megabase 38.	Plus DNA by H	ybridiza	ation: Th	eory of the Meth	od", Universit	ty of	
	НК	Tenover, Clinical M	icrobiology Rev	views, Vol.	1, No. 1, pp. 82-	·101, Ja	anuary 1	988.			
	HL	Ogle et al., The Jou	rnal of Infectio	us Disease	s, Vol. 155, No.	1, pp. 1	119-126,	January 1987.			
	НМ	Moseley et al., Adva	ances in resea	rch on Chol	era and Related	d Diarrh	eas, pp.	207-216, 1983.			
	HN	Frankel et al., The	Journal of Infec	ctious Disea	ses, Vol. 161, p	p. 1252	2-1256, ⁻	1990.			
	НО	Ezaki, Asian Med.	J., Vol. 34, No.	8, pp. 454-4	459, 1991.						
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Sheet 9 of 14			INFORMA	TION DISCLO	SURE STATEMENT					
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	IJ	Ezaki et al., Cancer	, Vol. 61, pp. 1	06-109, 19	88.					
	IK	Horn et al., Concise	Communication	ons, pp. 12	50-1252, (date u	ınknowı	ר).			
-	IL	Robins-Browne et a	I., Journal of C	linical Micro	obiology, Vol. 27	', No. 4	, pp. 64	4-650, April 198	9.	
	IM	Ezaki et al., Internat	ional Journal o	of Systemat	ic Bacteriology, '	Vol. 36	, No. 2,	pp. 345-347, 19	86.	
	IN	McDonough et al., J	ournal of Clinic	cal Microbio	ology, Vol. 26, No	o. 12, p	p. 2515	-2519, 1988.		
	10	Bunemann et al., No	ucleic Acids Re	esearch, Vo	ol. 10, No. 22, pp	. 7163-	7180, 1	982.		
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Sheet 10 of 14			INFORMA	TION DISCLO	SURE STATEMENT						
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	,	OTHER	DOCUMENT(S) (Including Author	or, Title, Date, Pertine	nt Pages	s, Etc.)				
	JJ	Forster et al., Nucle	ic Acids Resea	arch, Vol. 1	3, No. 3, pp. 745-	-761, 1	985.				
	JK	Koomey et al., Infec	tion and Immu	ınity, Vol. 4	3, No. 1, pp. 101-	-107, J	anuary	1984.			
	JL	Syvanen, Medical B	Syvanen, Medical Biology, Vol. 64, pp. 313-324, 1986, Review Article.								
	JM	Nagata et al., FEBS	Nagata et al., FEBS Letters, Vol. 183, No. 2, pp. 379-382, April 1985.								
	JN	Ezaki et al., FEMS N	Ezaki et al., FEMS Microbiology Letters, Vol. 67, pp. 127-130, 1990.								
	JO	Kilpper-Balz et al., S	System. Appl. I	Microbiol., V	/ol. 5, pp. 494-50	00, 198	4.				
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	KE	1284931	1/91		CA						
	KE	89/11548	11/89		wo						
	KG	237362	9/87		EP						
	КН										
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		OTHER	DOCUMENT(S)	(Including Auth	or, Title, Date, Pert	tinent Page	s, Etc.)				
	KJ	Habermehl, Ed., Ra	pid Methods a	and Automat	tion in Microbio	ology and	i Immun	iology, pp. 30-33	, 1988.		
	кк	Schachter, Diagn. N	/licrobiol. Infec	:t. Dis., Vol.	4, pp. 185-189), 1986.					
	KL	Starnbach, Journal	Starnbach, Journal of Clinical Microbiology, Vol. 27, No. 6, pp. 1257-1261, June 1989.								
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	ко	Dean et al., Journal	of Clinical Mic	crobiology, \	Vol. 27, No. 5, _[pp. 1062	-1067, N	—————————————————————————————————————			
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Sheet 12 of 14			INFORMA	TION DISCLO	SURE STATEMENT	Γ					
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(Use several sheets if necessary) Date Submitted to PTO: October 25, 2006				FILING DATE GROUP February 6, 2004 1631							
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	LB										
			FOR	EIGN PATENT	DOCUMENTS						
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	LC	:									
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	МА	4,205,952	6/1980		Cais					
	МВ	4,145,406	5/1979	Sch	ick et al.					
	мс	4,000,252	12/1976	ŀ	Kosak					
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	ME	4,299,916	11/1981	Litm	nan et al.					
	мС	4,323,647	4/1982	Moi	nji et al.	et al.				
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	MP	Bioarray News, Vol.	1, No. 1, pp. 1	, 8 and 9, J	une 1, 2001					
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	MQ	Wodicka et al., "Genome-wide expression monitoring in Saccharomyces cerevisiae", Nature Biotechnology, Vol. 15, pp. 1359-1367, 1997.								
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy this form with next communication to applicant.

Sheet-14 of 14			INFORMA	TION DISCLOSURE STATEMENT	Ī							
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	NI											
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	NK											
	NL											
	NM											
	NN											
		OTHER	DOCUMENT(S)	Including Author, Title, Date, Pertin	ent Pages, Etc.)							
	NO Bioarray News, Vol. 1, No. 1, pp. 1, 8 and 9, June 1, 2001											
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